



## SOUNDARYA LAHARI VALIPE

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### PROFESSIONAL SUMMARY

Skilled software engineer with 3 plus years of experience and an MS in Computer Science, proficient in using React.js, Node.js, Spring Boot, and AWS to develop sophisticated, high-performance web solutions that enhance system efficiency and user experience.

### TECHNICAL SKILLS

<b>Programming Languages</b>	Python, C, Java, SQL, NoSQL, MySQL, MongoDB, JavaScript, HTML, CSS, SASS, Tailwind CSS, PHP
<b>Frameworks and Libraries</b>	React.js, Node.js, Express.js, Spring Boot, Bootstrap, Material-UI, Babel, Webpack
<b>Tools, Platforms and Technologies</b>	AWS, REST APIs, REST, Microservices, Git, GitHub, Bitbucket, JIRA, Jenkins, Docker, SDLC, Linux, Postman, JEST, Kubernetes, Confluence, Redis, Agile, Scrum, ETL, VS Code, Eclipse, Tomcat, XML, JSON
<b>Relevant coursework</b>	Design and Analysis of Algorithms, Machine Learning, Natural Language Processing, Problem Solving

### PROFESSIONAL EXPERIENCE

**Graduate Teaching Assistant** | University of Central Florida 01/2024 – 05/2024 | Orlando, FL

- Engineered a web application for **presenting student records** using **React.js, JavaScript, MongoDB** and **Node.js**.
- Facilitated delivery of Web Development course for **300 students** by creating **interactive modules** and providing **one-on-one** support, leading to a **20% increase** in overall student engagement and course satisfaction.

**Software Engineer** | Bosch Global Software Technologies 07/2020 – 07/2022 | Bengaluru, India

- Spearheaded the development of a **high-performance web application** using the **MERN stack** (MongoDB, Express.js, React.js, Node.js), integrating **AWS services** for **improved scalability and security**, resulting in a **30%** increase in **system resilience**.
- Increased **operational efficiency** and **user engagement** by designing and developing a dynamic **project management platform** using **React** and **Redux** for state management, leading to a **20%** improvement in productivity and a **25%** increase in user interaction.
- Enhanced **data flow** by developing robust **RESTful APIs** with **Node.js** and **Express** on **AWS**, reducing **server response times** by **15%**.
- Elevated **MongoDB** performance with **AWS storage solutions**, increasing data **retrieval speeds** by **18%**, supporting high-volume transactions.
- Reduced **critical bugs** by **30%** with comprehensive testing via **Jest** and **React Testing Library**, enhancing **code quality** and **reliability**.
- Pioneered **Docker adoption**, cutting new developer onboarding time by **40%** and **standardizing deployments** across all environments.

**Backend Software Engineer** | Girmity Software Pvt Ltd 03/2019 – 04/2020 | Bengaluru, India

- Designed and implemented **scalable RESTful APIs** and optimized **microservices** using **Java, Spring Boot, Redis**, and **AWS**, significantly enhancing **data management efficiency** and **application responsiveness**, resulting in a **40%** increase in **transaction throughput**.
- Developed **automation testing frameworks** using **JavaScript** and **Postman**, and architected **CI/CD pipelines** using **Jenkins** on **AWS EC2**, which collectively boosted **deployment speed** by **25%**, **reduced API errors** by **50%**, and increased **deployment reliability** by **30%**.
- Conducted advanced data analysis using **SQL** and robust **ETL processes** to rectify **data discrepancies**, boosting customer satisfaction by **40%**.
- Refined backend features** using **SQL**, boosting **product adoption** by **25%**, deployed **parallel processing** to reduce **data retrieval times** by **40%**, and used advanced algorithms to optimize **marketing campaign effectiveness**, resulting in a **27%** increase in **customer engagement**.
- Successfully deployed **75 bug fixes**, demonstrating **release engineering expertise** and enhancing **feature stability** across projects.

### EDUCATION

University of Central Florida Master of Science, Computer Science | GPA- 3.91/4.0 08/2022 – 05/2024

### PROJECTS

**[Chat Application](#)** | React JS, Node JS, Express, MongoDB, HTML, JavaScript, CSS, Bootstrap, Material-UI, Socket.io

Innovated a full-stack **chat app** with real-time communication, featuring **user authentication**, **one-to-one and group chats**, **typing indicators**, **search**, **notifications**, and **profile viewing**. Utilized **Socket.io** for real-time updates, **React** and **Material-UI** for the frontend, **Node.js** with **Express** for the backend, and **MongoDB** for data storage. Implemented **secure data handling** and a **responsive UI**.

**[Quiz Application](#)** | Spring Boot, Thymeleaf, Maven, Java, HTML/CSS, JavaScript, Docker, Kubernetes, MySQL

Created a dynamic **quiz application** with **user registration**, **real-time participation**, and **score tracking**. Utilized **Spring MVC**, **Spring Data JPA**, and **Thymeleaf** for a responsive UI. Established a scalable platform using **CI/CD**, **Docker**, and **Kubernetes**, enhancing **user engagement** and showcasing expertise in **deployment systems** and **secure coding practices**.

**[NLP-Based Resume Classification System](#)** | Python, Keras, TensorFlow, Scikit-learn, NLTK, Hugging Face Transformers

Developed an **NLP system** with **KNN**, **CNN**, and **DistilBERT** to classify **962 resumes** across **25 job categories**, achieving **98.9% accuracy** using **CNN**. Employed advanced **preprocessing** and **analysis** to **boost recruitment efficiency** and **reduce bias**, enhancing the selection process.

**[Subscription box management system with Payment Integration](#)** | HTML, CSS, PHP, JavaScript, MySQL, PayPal API

Engineered a web-based **e-commerce platform** for **customizable subscriptions** to gadgets, clothes, skincare, and jewelry. Features include **user registration**, **login**, **customizable shopping cart**, and **secure PayPal payments**. Enhanced user interaction with **dynamic product customization**, **streamlined transactions**, and **detailed reporting** for effective subscription tracking.

### CERTIFICATIONS AND AWARDS

- [AWS Certified Developer – Associate](#)**
- Awarded **"Rockstar Rookie"** and **"Standout Performer"** for superior problem-solving skills and pivotal contributions to team success.